

On Friday the following papers were read :

J. C. ARTHUR : The cultures of Uredineæ in 1899.

FRANCIS E. LLOYD : The embryology of *Vaillantia hispida*.

A. D. SELBY : The flora of Franklin county, Ohio.

ERWIN F. SMITH : The fungous infestations of agricultural soils in the United States.

C. E. BESSEY : Are the trees advancing or retreating upon the Nebraska plains?

WM. SAUNDERS : Useful trees and shrubs for the northwest plains of Canada.

H. L. BOLLEY and L. R. WALDRON : The occurrence of calcium oxalate and lignin during the differentiation of the buds of *Prunus Americana*.

HERMANN VON SCHRENK : Two diseases of Juniperus.

WM. B. STEWART : Etiolative reactions of *Sarracenia* and *Oxalis*.

JULIA B. CLIFFORD : The mycorrhiza of *Tipularia*.

HENRY KRAEMER : The crystals in *Datura Stramonium*.

At 3 P.M. on Friday the section adjourned, *sine die*.—C. R. B.

BOTANICAL SOCIETY OF AMERICA.

THE fifth annual meeting was held in Columbus, Ohio, August 18, 19, under the presidency of DR. LUCIEN MARCUS UNDERWOOD. All sessions were held in buildings of the Ohio State University. The address of the retiring president, DR. NATHANIEL LORD BRITTON, upon *The development of the New York Botanical Garden* was given in the chapel of University Hall on Friday evening. It was copiously illustrated with lantern slides, showing the original site, with its natural beauties, the progress of the planting, buildings, etc. The address will be published in full in a later number of the GAZETTE. At the close of the address the thanks of the audience were voted to the speaker for the interesting and able presentation of facts regarding the great institution of which he is director. The following papers were read in full or in abstract or by title before the society. Abstracts of some of them will be found in later pages:

CHARLES E. BESSEY : *Apetalý and diæciousness*.

BRADLEY M. DAVIS : *The spore-mother-cells of Anthoceros*.

DANIEL T. MACDOUGAL : *Symbiosis and saprophytism*.

DAVID M. MOTTIER : *The effect of centrifugal force upon the cell*.

NATHANIEL L. BRITTON : *The American species of Arisæma*.

JOSEPH C. ARTHUR: *The Uredineæ occurring upon Phragmites, Spartina, and Arundinaria in America.*

BYRON D. HALSTED: *Distribution of American Erysipheæ.*

BRADLEY M. DAVIS: *Gametes and gametangia of the Phycomycetes.*

WILLIAM TRELEASE: *Classification of botanical publications.* The society requested that this paper be read also before section G, A. A. A. S.

DANIEL T. MACDOUGAL: *Etiolative reactions.*

LUCIEN M. UNDERWOOD: *The foundations of genera in ferns.*

The officers elected for 1900 are: BENJAMIN LINCOLN ROBINSON, *president*; BYRON DAVID HALSTED, *vice president*; ARTHUR HOLLICK, *treasurer*; GEORGE FRANCIS ATKINSON, *secretary*; B. T. GALLOWAY and D. P. PENHALLOW, *councillors*.

The new members elected were: J. M. Macoun, Geological Survey, Ottawa, Can.; W. J. Beal, Agricultural College, Mich.; C. F. Mills-paugh, Field Columbian Museum, Chicago; Marshall A. Howe, Columbia University, New York.

Amendments to the constitution were adopted, creating as additional classes of members, life members, associates, and patrons. The new sections are as follows:

Section 3. Life Members.—Any member of the Society may become a Life Member by the payment to the treasurer of one hundred dollars at any one time. Life membership fees shall be added to the permanent fund of the Society.

Section 4. Associates.—Associates of the Society may be elected in the manner already prescribed for members. Before the first of January following his election, each Associate shall pay into the treasury of the Society annual dues to the amount of five dollars. Associates shall have all the privileges of members except that of voting, and of holding office. Subsequent to the adoption of this provision members shall be chosen only from the list of associates.

Section 5. Patrons.—The payment to the treasurer of a sum not less than two hundred and fifty dollars at any one time, or a bequest of such sum, shall constitute the donor a Patron of the Society. The names of Patrons shall be published with the annual lists of officers and members, and the Patrons shall be entitled to receive copies of all the publications of the Society. Patrons' fees shall be added to the permanent fund of the Society.

The report of the treasurer shows funds on hand amounting to \$1438.27, of which \$1260 is on deposit in savings banks. A committee was appointed to invest funds where a higher rate of interest may be obtained than from savings banks. The total assets of the Society are now \$1517.59.—C. R. B.